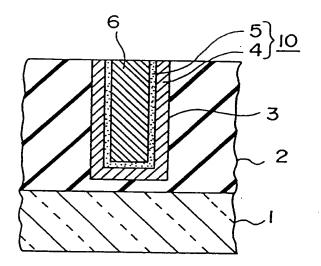
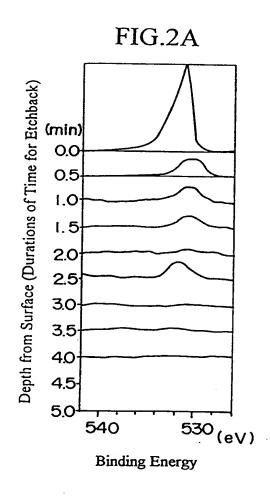
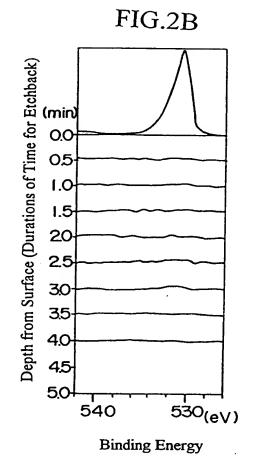


FIG.1



*



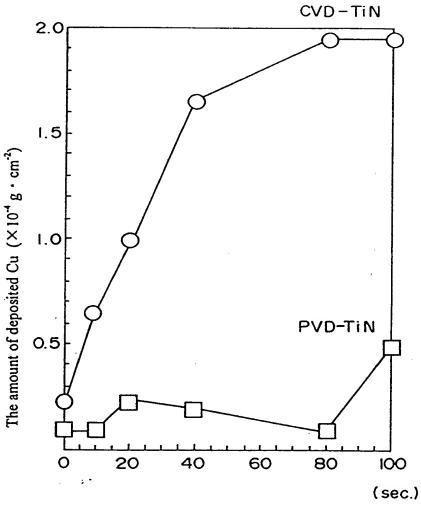


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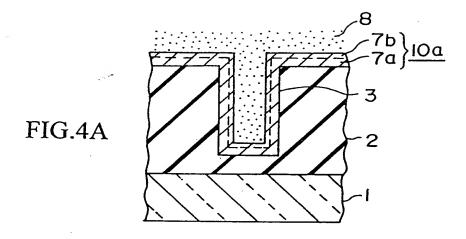
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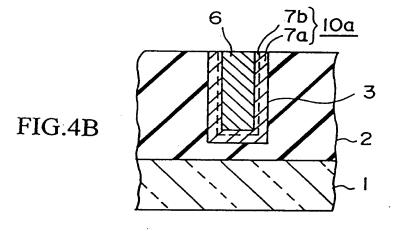
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FIG.3



Elapsed Time from Start of Supply of Reaction Gas





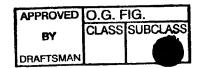
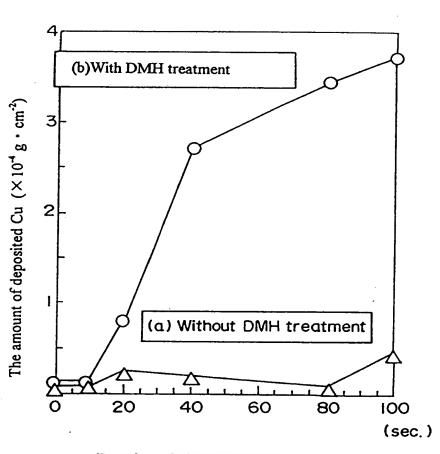


FIG.5



Duration of Time for Growth

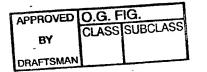


FIG.6B Cu-O Ti-O (min.) **Q6** 1.2 FIG.6A 1.8 24 Cu-O Ti-O Depth from Surface (Durations of Time for Etchback) 3.0 Depth from Surface (Durations of Time for Etchback) 3.6 Cu 4.2 4.8 (min) <u>54</u> 0 6.6 0.6 7.2 1.2 7.8 1.8 8.4 2.4 9.0 TiN 3.0 9.6 TiN 3.6 102 4.2 10.8 4.8 11.4

542

Binding Energy

120

126 526 (eV)

5.4

___6.0 526 (eV)

542

Binding Energy

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FIG.7A

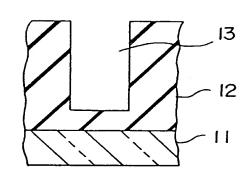


FIG.7B

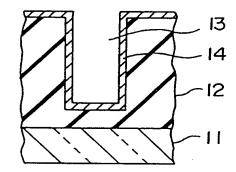
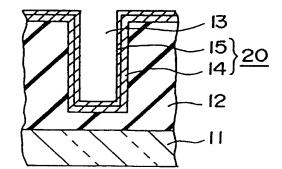


FIG.7C



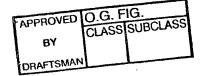


FIG.7D

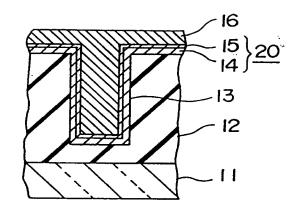
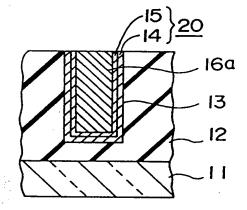
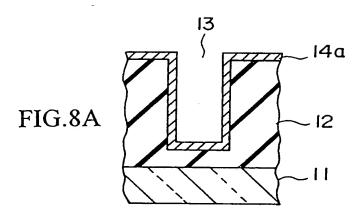
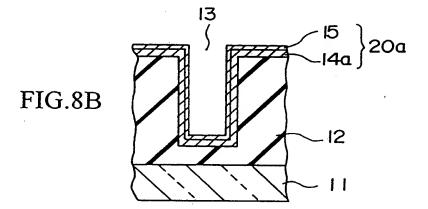


FIG.7E



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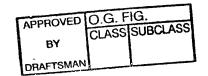
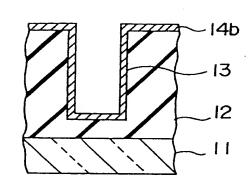
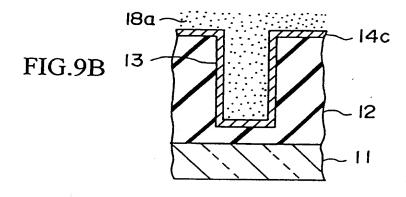
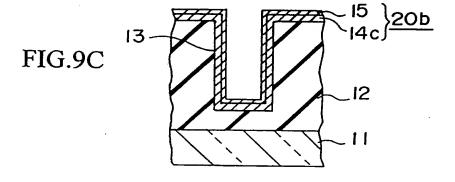


FIG.9A







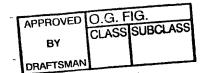


FIG.10A

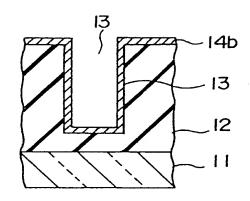


FIG.10B

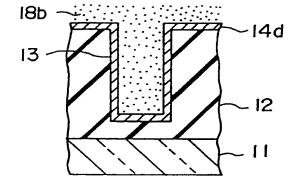
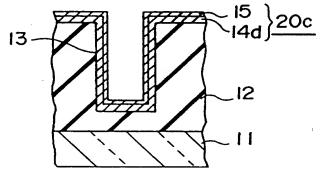


FIG.10C





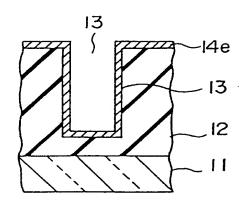


FIG.11B

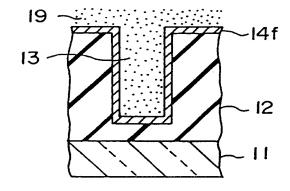
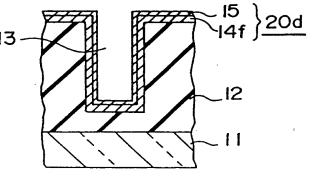


FIG.11C



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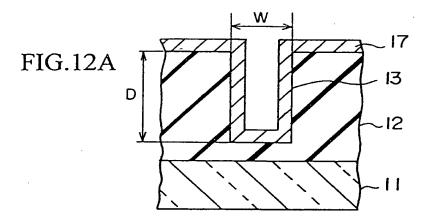
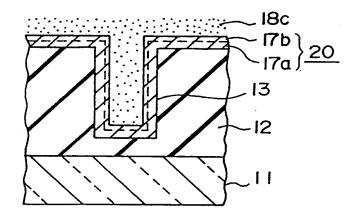


FIG.12B



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FIG.12C

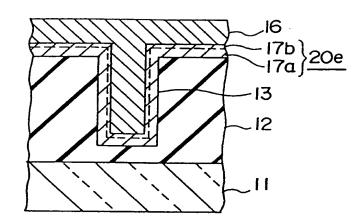
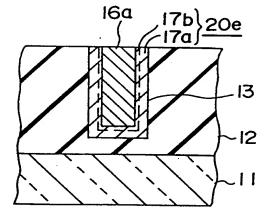
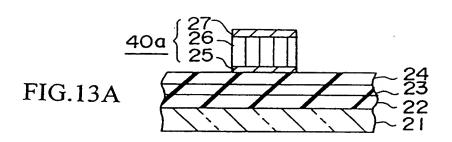
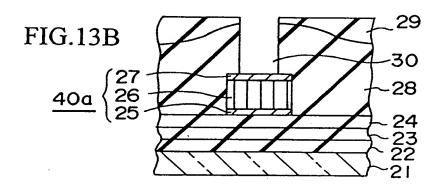


FIG.12D



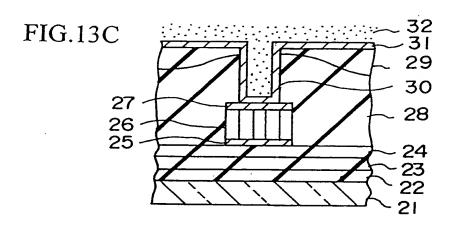
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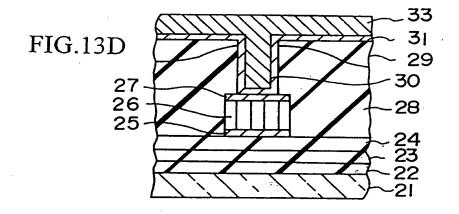




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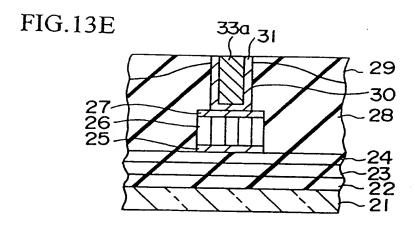
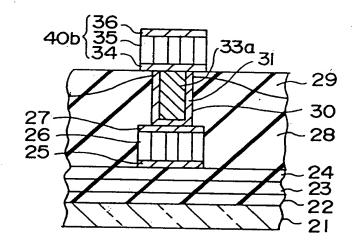


FIG.13F



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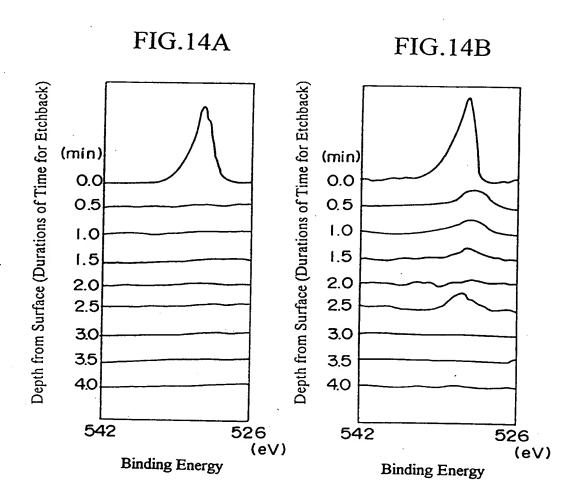
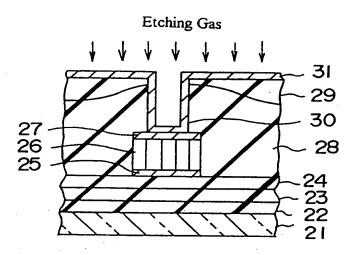






FIG.15



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